



*The All Electric No Idle Solution*

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### **CLIMACAB PERFORMANCE TEST AT KLLM TRANSPORT SERVICES**

- **Purpose of this test was to demonstrate to KLLM Transport Services that the ClimaCab All Electric No-Idle solution will meet or surpass the stringent requirements of the Technology & Maintenance Council's (TMC) Recommended Practice (RP) 432.**

#### **TMC RP 432:**

- **Ambient temperature = 100 degrees Fahrenheit**
- **Factory installed sleeper curtain closed**
- **Initial sleeper temperature = 73 degrees Fahrenheit +1/-5 degrees**
- **Maintain a minimum sleeper temperature of 78 degrees Fahrenheit for 10 hours**
- **At test's end there should be enough battery power to restart the truck engine**

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**TEST STARTED ON MAY 15, 2009 IN THE EMPIRE BODY SHOP PAINT BOOTH IN RICHLAND, MS, AND ENDED ON THE KLLM YARD IN RICHLAND, MS ON MAY 16, 2009.**

**TEST PERFORMED ON A 2008 FREIGHTLINER CASCADIA WITH STANDARD INSULATION PACKAGE.**

**CLIMACAB'S FACTORY INSTALLED USB DATA LOGGER USED TO CAPTURE PERFORMANCE DATA EVERY 10 SECONDS.**

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#### **PRE-TEST:**

- **Paint booth stabilized at 104 degrees Fahrenheit**
- **Sleeper pre-cooled to 65 degrees Fahrenheit with curtains closed**
- **ClimaCab maintaining 72 degree Fahrenheit**

**TEST:**

- **Paint booth test started at 7:40 am and ended at 4:40pm**
- **KLLM truck moved out of Empire paint booth to the KLLM yard, temperature was 90 degrees Fahrenheit on the yard**
- **ClimaCab system continued to maintain 72 degrees Fahrenheit throughout the night, and automatically shut down the next day at 3:30pm, running a total of 32 hours.**
- **ClimaCab battery bank ended with a voltage of 10.3, or the system's 20% minimum, which is sufficient to start the truck engine if required, using the ClimaCab "Start Assist" feature**